

I claim:

1. Apparatus for separating oil and debris from water run-off comprising:

5 a chamber having an upper inlet, said inlet being in the path of flow of the run-off;

a downwardly inclined wedge wire screen in said chamber extending from said inlet
10 for advancement of the run-off thereacross;

a basin including debris-collecting means at a lower end of said screen;

an organic absorber disposed behind said screen in the path of run-off passing through
15 said screen for the absorption of organic oils in the run-off;

an outlet at a lower end of said chamber; and

discharge means for removal of run-off after it has passed through said organic
20 absorber.

2. Apparatus according to claim 1 wherein said organic absorber is buoyant.

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3. Apparatus according to claim 1

wherein said basin is suspended within said chamber and includes an outer surrounding vertical wall to control overflow of run-off from said basin into said chamber.

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4. Apparatus according to claim 1 wherein said discharge means is mounted within said basin and includes a series of vertically spaced discharge orifices and overhanging baffles.

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5. Apparatus according to claim 4 wherein said discharge orifices are narrowed at a bottom end of said basin.

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6. Apparatus according to claim 1 wherein said screen is hinged to a lower end of said basin.

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7. Apparatus according to claim 1 wherein said chamber includes upper removable cover means for selective evacuation of debris collected in said basin.

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8. Apparatus according to claim 1 wherein said chamber has a lower sloped bottom panel and said outlet having a lower end flush

with said bottom panel.

9. Apparatus according to claim 1
wherein said wedge wire screen includes tilted
5 wire wedge wire.

10. In apparatus for separating oil and
debris from water run-off from a storm drain
a chamber disposed in the path of
10 flow of the run-off having an inlet;
a downwardly inclined wedge wire
screen in said chamber extending from said inlet
for advancement of the run-off thereacross;
a basin including debris-collecting
15 means at a lower end of said screen;
buoyant organic absorber means
floating on the run-off in said basin for the
absorption of organic oils in the run-off;
an outlet at a lower end of said
20 chamber; and
discharge means for removal of run-
off after it has passed through said organic
absorber.

25 11. Apparatus according to claim 10
wherein said organic absorber means is disposed

behind said screen.

12. Apparatus according to claim 10
wherein said basin is suspended within said
5 chamber and includes an outer surrounding vertical
wall to control overflow of run-off from said
basin into said chamber.

13. Apparatus according to claim 10
10 wherein said discharge means is mounted within
said basin and includes a vertical plate having a
series of vertically spaced discharge orifices.

14. Apparatus according to claim 13
15 wherein said discharge orifices are reduced in
size at a lower end of said discharge means.

15. Apparatus according to claim 10
wherein said screen is hinged to a lower end of
20 said basin.

16. Apparatus according to claim 10
wherein said chamber includes upper removable
cover means for selective evacuation of debris
25 collected in said basin.

17. Apparatus according to claim 10 wherein said chamber has a lower sloped bottom panel and said outlet has a lower end flush with said bottom panel.

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18. In apparatus for separating organic materials and debris from water run-off comprising:

10 a chamber for receiving the run-off;

a basin suspended within said chamber;

15 a downwardly inclined tilted wire wedge wire screen filter in said basin traversing a substantial length of said basin;

said basin including debris collecting means at a lower end of said filter;

20 a buoyant organic absorber means floating on a surface of the run-off in said basin for the absorption of organic oils in the run-off;

an outlet at a lower end of said chamber; and

discharge orifices for removal of run-off from said basin.

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19. In apparatus according to claim 18

wherein an acceleration plate is disposed at an upper end of said filter and disposed in said basin over which the run-off is advanced, and said absorber is disposed behind said filter.

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20. In apparatus according to claim 19 wherein said filter includes an upper acceleration plate.

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21. In apparatus according to claim 18 wherein said basin includes a plurality of discharge orifices behind said filter for removal of the run-off from said basin.

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22. In apparatus according to claim 21 wherein said discharge orifices are disposed in vertically spaced relation to one another and baffle plates extend in overhanging relation to said orifices.

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23. A method for filtering debris and organic materials comprising:

directing urban run-off through an upper inlet of a chamber;

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filtering said run-off through a tilted wire wedge wire screen;

depositing debris at a base of said
wedge wire screen;

absorbing organic oils in said run-
off with an organic absorber; and

5 discharging filtered run-off
through discharge plates.

25. The method according to claim 24
including the step of accelerating said run-off
10 through said wedge wire screen with an
acceleration plate.

26. The method according to claim 24
including the step of removing said absorber
15 pillow with a lift hand.

27. The method according to claim 26
including the step of pivoting said wedge wire
screen laterally for removal of said pillow.
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28. The method according to claim 24
including the step of evacuation of said debris
with a suction device.